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RESEDA@BOA - or how to successfully build a MIEZE setup in 5 days

Tuesday, 5 December 2023 14:00 (3 hours)

RESEDA is the only operational longitudinal MIEZE spectrometer world wide. Therefore, it is impossible to perform out-of-the-box experiments on the subject of entangled neutron beams at any other neutron scattering facility. We tackled this challenge by setting up the RESEDA MIEZE arm at the BOA test beamline located at the Paul Scherrer Institut in Switzerland.

This endeavour was a full success, as we managed to install the entire MIEZE components with the necessary hardware and software interfaces in under 5 days. Measurements of the spin-energy-entanglement of the neutron states were subsequently performed.

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